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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/764,246	01/23/2004	Donald Allen Pile	R087 1273.1	8048	
75	7590 10/17/2006		EXAMINER		
WOMBLE CARLYLE SANDRIDGE & RICE			FELTON, AILEEN BAKER		
P.O. Box 7037 Atlanta, GA 3	0357-0037		ART UNIT	PAPER NUMBER	
		*	1755		
			DATE MAILED: 10/17/2006	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

				- 1/	
		Application No.	Applicant(s)		
Office Action Summary		10/764,246	PILE ET AL.		
		Examiner	Art Unit		
		Aileen B. Felton	1755		
Period f	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the o	orrespondence address		
VVHIII - Extending - If No - Fails Any	HORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING Do ansions of time may be available under the provisions of 37 CFR 1.1 TO SIX (6) MONTHS from the mailing date of this communication. TO period for reply is specified above, the maximum statutory period of the unit or reply within the set or extended period for reply will, by statute treply received by the Office later than three months after the mailing the patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
1)⊠	Responsive to communication(s) filed on 31 Ju	uly 2006.			
		action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.		
Disposit	ion of Claims				
4)🛛	Claim(s) 1-45 is/are pending in the application.				
	4a) Of the above claim(s) 23-31,42 and 43 is/al	re withdrawn from consideration.			
5)□	Claim(s) is/are allowed.				
6)⊠	Claim(s) <u>1-22,32-41,44 and 45</u> is/are rejected.				
	Claim(s) is/are objected to.				
8)[]	Claim(s) are subject to restriction and/o	r election requirement.			
Applicat	ion Papers				
9)	The specification is objected to by the Examine	r.			
10)	The drawing(s) filed on is/are: a) according to	epted or b) objected to by the □	Examiner.		
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).		
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).		
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.		
Priority :	under 35 U.S.C. § 119				
	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).		
	1. Certified copies of the priority documents	s have been received.			
	2. Certified copies of the priority documents	s have been received in Applicati	on No		
	3. Copies of the certified copies of the prior	rity documents have been receive	ed in this National Stage		
	application from the International Bureau	• • • •			
* (See the attached detailed Office action for a list	of the certified copies not receive	:d.		
Attachmer	at(s)				
_	ce of References Cited (PTO-892)	4) Interview Summary			
_	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P			
intor بي رد Pape	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	6) Other:	atont Application		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-22, 32-41, 44, and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over John, Jr. et al (6,478,903) in view of Brun (2,111,203).

John, Jr. et al discloses the composition substantially as claimed including an oxidizer such as potassium nitrate from 20-70 % (col. 2, lines 50-55), a secondary explosive such as PETN at 3%(col. 4, lines 35-37 and Table 1), a sensitizer such as tetrazene from 4-11 % (col. 4, lines 37-47), and a metallic fuel such as aluminum from 2-20 % (col. 4, lines 55-65). The composition also includes bismuth sulfide as the fuel or inflammable material in the primer mix (col. 2, lines 45-65) but does not mention the use of bismuth oxide.

Brun discloses a primer mix that includes bismuth trioxide as a catalyst (col. 1, lines 39-52).

It would have been obvious to one of skill in the art at the time the invention was made to use the bismuth trioxide as taught by Brun with the composition of John, Jr. et al since Brun suggests that the bismuth trioxide catalyst has been found to be applicable to priming mixtures generally and since John, Jr. et al suggests the use of a bismuth salt for use in priming compositions.

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Response to Arguments

Applicant's arguments filed have been fully considered but they are not persuasive.

Applicant argues that there is no suggestion to combine, the Examiner disagrees. John, Jr clearly discloses using bismuth salts in a primer composition and Brun teaches that it is known to use bismuth trioxide as a catalyst for priming mixtures. Thus it would be obvious to include such a catalyst in a different priming mixture. It is irrelevant which term is used to describe the components (i.e. fuel, oxidizer, etc) since you cannot remove their function from them, regardless of what they are called. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aileen Felton whose telephone number is 571.272.6875.

The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571.272.1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Aileen Felton

Primary Examiner